

# Yu Sun

## List of Publications by Year in descending order

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100  
papers

3,241  
citations

147801

31  
h-index

175258

52  
g-index

101  
all docs

101  
docs citations

101  
times ranked

3385  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoplethysmography Revisited: From Contact to Noncontact, From Point to Imaging. IEEE Transactions on Biomedical Engineering, 2016, 63, 463-477.	4.2	396
2	Motion-compensated noncontact imaging photoplethysmography to monitor cardiorespiratory status during exercise. Journal of Biomedical Optics, 2011, 16, 077010.	2.6	176
3	Functional cortical connectivity analysis of mental fatigue unmasks hemispheric asymmetry and changes in small-world networks. Brain and Cognition, 2014, 85, 220-230.	1.8	127
4	Noncontact imaging photoplethysmography to effectively access pulse rate variability. Journal of Biomedical Optics, 2012, 18, 061205.	2.6	124
5	Functional Connectivity Analysis of Mental Fatigue Reveals Different Network Topological Alterations Between Driving and Vigilance Tasks. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 740-749.	4.9	108
6	Disrupted Functional Brain Connectivity and Its Association to Structural Connectivity in Amnesic Mild Cognitive Impairment and Alzheimer's Disease. PLoS ONE, 2014, 9, e96505.	2.5	98
7	Task-Independent Mental Workload Classification Based Upon Common Multiband EEG Cortical Connectivity. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1940-1949.	4.9	88
8	Progressive Gender Differences of Structural Brain Networks in Healthy Adults: A Longitudinal, Diffusion Tensor Imaging Study. PLoS ONE, 2015, 10, e0118857.	2.5	84
9	Cognitive Workload Assessment Based on the Tensorial Treatment of EEG Estimates of Cross-Frequency Phase Interactions. Annals of Biomedical Engineering, 2015, 43, 977-989.	2.5	79
10	Abnormal Resting-State Functional Connectivity Strength in Mild Cognitive Impairment and Its Conversion to Alzheimer's Disease. Neural Plasticity, 2016, 2016, 1-12.	2.2	69
11	Brain enhancement through cognitive training: a new insight from brain connectome. Frontiers in Systems Neuroscience, 2015, 9, 44.	2.5	67
12	EEG Cortical Connectivity Analysis of Working Memory Reveals Topological Reorganization in Theta and Alpha Bands. Frontiers in Human Neuroscience, 2017, 11, 237.	2.0	67
13	Neural Mechanisms of Mental Fatigue Revisited: New Insights from the Brain Connectome. Engineering, 2019, 5, 276-286.	6.7	65
14	Revealing Cross-Frequency Causal Interactions During a Mental Arithmetic Task Through Symbolic Transfer Entropy: A Novel Vector-Quantization Approach. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 1017-1028.	4.9	63
15	Mental Workload Drives Different Reorganizations of Functional Cortical Connectivity Between 2D and 3D Simulated Flight Experiments. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1704-1713.	4.9	61
16	Reduced Hemispheric Asymmetry of Brain Anatomical Networks Is Linked to Schizophrenia: A Connectome Study. Cerebral Cortex, 2017, 27, bhv255.	2.9	60
17	Quantitative Assessment of the Training Improvement in a Motor-Cognitive Task by Using EEG, ECG and EOG Signals. Brain Topography, 2016, 29, 149-161.	1.8	59
18	Dynamic Reorganization of Functional Connectivity Reveals Abnormal Temporal Efficiency in Schizophrenia. Schizophrenia Bulletin, 2019, 45, 659-669.	4.3	59

#	ARTICLE	IF	CITATIONS
19	Discriminative Analysis of Brain Functional Connectivity Patterns for Mental Fatigue Classification. <i>Annals of Biomedical Engineering</i> , 2014, 42, 2084-2094.	2.5	53
20	Electroencephalographic differences between depressed and control subjects: An aspect of interdependence analysis. <i>Brain Research Bulletin</i> , 2008, 76, 559-564.	3.0	48
21	Mid-Task Break Improves Global Integration of Functional Connectivity in Lower Alpha Band. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 304.	2.0	46
22	Disruption of brain anatomical networks in schizophrenia: A longitudinal, diffusion tensor imaging based study. <i>Schizophrenia Research</i> , 2016, 171, 149-157.	2.0	45
23	Tablet-like TiO <sub>2</sub> /C nanocomposites for repeated type I sonodynamic therapy of pancreatic cancer. <i>Acta Biomaterialia</i> , 2021, 129, 269-279.	8.3	45
24	Development of QCM Trimethylamine Sensor Based on Water Soluble Polyaniline. <i>Sensors</i> , 2007, 7, 2378-2388.	3.8	42
25	Modular-level alterations of structure-function coupling in schizophrenia connectome. <i>Human Brain Mapping</i> , 2017, 38, 2008-2025.	3.6	42
26	Driving Fatigue Recognition With Functional Connectivity Based on Phase Synchronization. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2021, 13, 668-678.	3.8	42
27	Hypoxia-Adapted Sono-chemodynamic Treatment of Orthotopic Pancreatic Carcinoma Using Copper Metal-Organic Frameworks Loaded with an Ultrasound-Induced Free Radical Initiator. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 38114-38126.	8.0	42
28	Ultrasonic Cavitation-Assisted and Acid-Activated Transcytosis of Liposomes for Universal Active Tumor Penetration. <i>Advanced Functional Materials</i> , 2021, 31, 2102786.	14.9	40
29	Mindfulness practice alters brain connectivity in community-living elders with mild cognitive impairment. <i>Psychiatry and Clinical Neurosciences</i> , 2020, 74, 257-262.	1.8	39
30	Causal Interactions between Frontal, Parieto-Occipital ±2 Predict Performance on a Mental Arithmetic Task. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 454.	2.0	38
31	The effects of a mid-task break on the brain connectome in healthy participants: A resting-state functional MRI study. <i>NeuroImage</i> , 2017, 152, 19-30.	4.2	38
32	Enhancement of antitumor immunotherapy using mitochondria-targeted cancer cell membrane-biomimetic MOF-mediated sonodynamic therapy and checkpoint blockade immunotherapy. <i>Journal of Nanobiotechnology</i> , 2022, 20, 228.	9.1	37
33	EEG Fingerprints of Task-Independent Mental Workload Discrimination. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 3824-3833.	6.3	36
34	A vision transformer for emphysema classification using CT images. <i>Physics in Medicine and Biology</i> , 2021, 66, 245016.	3.0	30
35	Asymmetry of Hemispheric Network Topology Reveals Dissociable Processes between Functional and Structural Brain Connectome in Community-Living Elders. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 361.	3.4	28
36	Towards a multimodal bioelectrical framework for the online mental workload evaluation. , 2014, 2014, 3001-4.		26

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37	Identification of Amnesic Mild Cognitive Impairment Using Multi-Modal Brain Features: A Combined Structural MRI and Diffusion Tensor Imaging Study. <i>Journal of Alzheimer's Disease</i> , 2015, 47, 509-522.	2.6	26
38	Dynamic Reorganization of Functional Connectivity Unmasks Fatigue Related Performance Declines in Simulated Driving. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 1790-1799.	4.9	26
39	Inducible endothelial leakiness in nanotherapeutic applications. <i>Biomaterials</i> , 2022, 287, 121640.	11.4	25
40	A unified canonical correlation analysis-based framework for removing gradient artifact in concurrent EEG/fMRI recording and motion artifact in walking recording from EEG signal. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 1669-1681.	2.8	23
41	Machine learning technique reveals intrinsic characteristics of schizophrenia: an alternative method. <i>Brain Imaging and Behavior</i> , 2019, 13, 1386-1396.	2.1	23
42	A tensorial approach to access cognitive workload related to mental arithmetic from EEG functional connectivity estimates. , 2013, 2013, 2940-3.		22
43	Temporal efficiency evaluation and small-worldness characterization in temporal networks. <i>Scientific Reports</i> , 2016, 6, 34291.	3.3	22
44	Frontoâ€Parietal Subnetworks Flexibility Compensates For Cognitive Decline Due To Mental Fatigue. <i>Human Brain Mapping</i> , 2018, 39, 3528-3545.	3.6	21
45	Insight into the enhanced photoelectrocatalytic activity in reduced LaFeO <sub>3</sub> films. <i>Chemical Communications</i> , 2017, 53, 2499-2502.	4.1	20
46	Hypoxia-alleviated nanoplatform to enhance chemosensitivity and sonodynamic effect in pancreatic cancer. <i>Cancer Letters</i> , 2021, 520, 100-108.	7.2	19
47	Effects of Rest-Break on Mental Fatigue Recovery Determined by a Novel Temporal Brain Network Analysis of Dynamic Functional Connectivity. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 62-71.	4.9	17
48	Toward practical driving fatigue detection using three frontal EEG channels: a proof-of-concept study. <i>Physiological Measurement</i> , 2021, 42, 044003.	2.1	17
49	The Expression and Significance of Neuronal Iconic Proteins in Podocytes. <i>PLoS ONE</i> , 2014, 9, e93999.	2.5	17
50	Privacy-Preserving Brainâ€Computer Interfaces: A Systematic Review. <i>IEEE Transactions on Computational Social Systems</i> , 2023, 10, 2312-2324.	4.4	17
51	Altered dynamic effective connectivity of the default mode network in newly diagnosed drug-naïve juvenile myoclonic epilepsy. <i>NeuroImage: Clinical</i> , 2020, 28, 102431.	2.7	15
52	Dynamic functional connectivity and its anatomical substrate reveal treatment outcome in first-episode drug-naïve schizophrenia. <i>Translational Psychiatry</i> , 2021, 11, 282.	4.8	15
53	Graph theoretical analysis of EEG functional network during multi-workload flight simulation experiment in virtual reality environment. , 2017, 2017, 3957-3960.		14
54	EEG Functional Connectivity Predicts Individual Behavioural Impairment During Mental Fatigue. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2080-2089.	4.9	14

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55	Performance Enhancement of P300 Detection by Multiscale-CNN. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	14
56	E-Key: An EEG-Based Biometric Authentication and Driving Fatigue Detection System. IEEE Transactions on Affective Computing, 2023, 14, 864-877.	8.3	14
57	Altered intra- and inter-hemispheric functional dysconnectivity in schizophrenia. Brain Imaging and Behavior, 2019, 13, 1220-1235.	2.1	13
58	What Are Spectral and Spatial Distributions of EEG-EMG Correlations in Overground Walking? An Exploratory Study. IEEE Access, 2019, 7, 143935-143946.	4.2	13
59	A multi-domain prognostic model of disorder of consciousness using resting-state fMRI and laboratory parameters. Brain Imaging and Behavior, 2021, 15, 1966-1976.	2.1	13
60	Automatic quantification of epicardial adipose tissue volume. Medical Physics, 2021, 48, 4279-4290.	3.0	12
61	Design a Novel BCI for Neurorehabilitation Using Concurrent LFP and EEG Features: A Case Study. IEEE Transactions on Biomedical Engineering, 2022, 69, 1554-1563.	4.2	12
62	Aberrant dynamic structure–function relationship of rich–club organization in treatment-naïve newly diagnosed juvenile myoclonic epilepsy. Human Brain Mapping, 2022, 43, 3633-3645.	3.6	12
63	Early Cortical Connective Network Relating to Audiovisual Stimulation by Partial Directed Coherence Analysis. IEEE Transactions on Biomedical Engineering, 2009, 56, 2721-2724.	4.2	11
64	Single-trial estimation of the cerebral metabolic rate of oxygen with imaging photoplethysmography and laser speckle contrast imaging. Optics Letters, 2015, 40, 1193.	3.3	11
65	Driving Mental Fatigue Classification Based on Brain Functional Connectivity. Communications in Computer and Information Science, 2017, , 465-474.	0.5	11
66	Topological Changes in the Brain Network Induced by the Training on a Piloting Task: An EEG-Based Functional Connectome Approach. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 263-271.	4.9	11
67	Modular Functional-Metabolic Coupling Alterations of Frontoparietal Network in Schizophrenia Patients. Frontiers in Neuroscience, 2019, 13, 40.	2.8	11
68	Stress-induced changes in modular organizations of human brain functional networks. Neurobiology of Stress, 2020, 13, 100231.	4.0	11
69	Connectome pattern alterations with increment of mental fatigue in one-hour driving simulation. , 2017, 2017, 4355-4358.		10
70	Role of multisensory stimuli in vigilance enhancement- a single trial event related potential study. , 2017, 2017, 2446-2449.		10
71	Classification of EEG signal using convolutional neural networks. , 2019, , .		10
72	Mid-Task Physical Exercise Keeps Your Mind Vigilant: Evidences From Behavioral Performance and EEG Functional Connectivity. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 31-40.	4.9	10

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73	Cooperation driven coherence: Brains working hard together. , 2015, 2015, 4696-9.		9
74	Combining Visual Rating Scales for Medial Temporal Lobe Atrophy and Posterior Atrophy to Identify Amnesic Mild Cognitive Impairment from Cognitively Normal Older Adults: Evidence Based on Two Cohorts. Journal of Alzheimer's Disease, 2020, 77, 323-337.	2.6	9
75	Functional Connectivity for Motor Imagary Recognition in Brain-computer Interface. , 2020, , .		9
76	Graphic patterns of cortical functional connectivity of depressed patients on the basis of EEG measurements. , 2011, 2011, 1419-22.		7
77	Measuring vigilance decrement using computer vision assisted eye tracking in dynamic naturalistic environments. , 2017, 2017, 2478-2481.		7
78	Differences in maternal characteristics and pregnancy outcomes between syphilitic women with and without partner coinfection. BMC Pregnancy and Childbirth, 2019, 19, 439.	2.4	7
79	Information transfer efficiency during rest and task a functional connectome approach. , 2014, , .		6
80	US-Based Deep Learning Model for Differentiating Hepatocellular Carcinoma (HCC) From Other Malignancy in Cirrhotic Patients. Frontiers in Oncology, 2021, 11, 672055.	2.8	6
81	Dynamic Reorganization of Functional Connectivity During Post-Break Task Reengagement. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 157-166.	4.9	6
82	Performance of Radiomics Models Based on Coronary Computed Tomography Angiography in Predicting The Risk of Major Adverse Cardiovascular Events Within 3 Years: A Comparison Between the Pericoronary Adipose Tissue Model and the Epicardial Adipose Tissue Model. Academic Radiology, 2023, 30, 390-401.	2.5	6
83	Cortical interactive network during mental rotation of Chinese character. Neuroscience Letters, 2009, 461, 185-189.	2.1	5
84	Topological changes of the effective connectivity during the working memory training. , 2014, 2014, 6242-5.		5
85	Training-induced changes in information transfer efficiency of the brain network: A functional connectome approach. , 2015, , .		5
86	Breastfeeding improves dynamic reorganization of functional connectivity in preterm infants: a temporal brain network study. Medical and Biological Engineering and Computing, 2020, 58, 2805-2819.	2.8	5
87	Multimodal neuroimaging study reveals dissociable processes between structural and functional networks in patients with subacute intracerebral hemorrhage. Medical and Biological Engineering and Computing, 2019, 57, 1285-1295.	2.8	3
88	Exploring Fatigue Effects on Performance Variation of Intensive Brain-Computer Interface Practice. Frontiers in Neuroscience, 2021, 15, 773790.	2.8	3
89	A Novel Scheme for Classification of Motor Imagery Signal using Stockwell Transform of CSP and CNN Model. , 2020, , .		3
90	Inferring the Individual Psychopathologic Deficits With Structural Connectivity in a Longitudinal Cohort of Schizophrenia. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2536-2546.	6.3	3

#	ARTICLE	IF	CITATIONS
91	Functional brain network analysis reveals time-on-task related performance decline. , 2018, 2018, 271-274.		2
92	Online Adaptive Decoding of Motor Imagery Based on Reinforcement Learning. , 2019, , .		1
93	Middle temporal corpus callosum impairment as a predictor of eight-week treatment outcome of drug-naïve first-episode psychosis patients: A pilot longitudinal study. Schizophrenia Research, 2021, 232, 95-97.	2.0	1
94	Multilayer-Aggregation Functional Network for Identifying Brain Fatigue and Diseases. Frontiers in Physics, 2022, 9, .	2.1	1
95	Relationship between epicardial fat volume on cardiac CT and atherosclerosis severity in three-vessel coronary artery disease: a single-center cross-sectional study. BMC Cardiovascular Disorders, 2022, 22, 76.	1.7	1
96	Continuous Decoding of Self-Paced Movement Intention from EEG Correlates. , 2018, , .		0
97	Reorganization of Temporal Brain Network Underpins Accumulative Nature of Mental Fatigue. , 2019, , .		0
98	Evaluating Memory and Cognition via a Wearable EEG System: A Preliminary Study. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 52-66.	0.3	0
99	Strain-induced band gap tuning in flexible ferroelectric/mica thin films. Thin Solid Films, 2021, 731, 138741.	1.8	0
100	Cross-Subject Driving Fatigue Detection Model Based on Feature Selection of Critical Functional Connectivity. , 2021, , .		0